

# IAC Mission Success Stories

# AMPTIAC

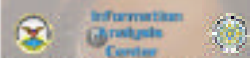
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Story 1

Story 2

## Preserving Legacy Data to Support Hypersonic Materials Research

Hypersonic research programs continue to be important to both DoD and NASA. There are a variety of ongoing programs such as the X-33 and Military Space Plane that are intent on expanding the capabilities now available through NASA's Space Shuttle. However, operating at hypersonic velocities imposes tremendous burdens on the materials used to construct the vehicle—especially on leading edges and flight control surfaces. AMPTIAC, in a partnership with the Air Force Research Laboratory's Materials and Manufacturing Directorate (AFRL/ML) has created a secure on-line database to transition the hypersonic materials technologies developed by the X-30 National Aerospace Plane (NASP) program.

[Continued on Story 1](#)

## Training U.S. Air Force Researchers on Materials Selection for Space and Launch Applications

As the U.S. Air Force migrates to an air and space force, the research community particularly feels the impact. Engineers and scientists at the Air Force Research Laboratory's Materials and Manufacturing Directorate (AFRL/ML) have traditionally focused on developing new materials for aircraft applications.

[Continued on Story 2](#)

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### Preserving Legacy Data to Support Hypersonic Materials Research (continued)

AMPTIAC, in cooperation with the Defense Technical Information Center (DTIC), scanned approximately 400 program technical reports and converted them back to full-text, searchable documents. These documents are now easily located, downloaded, and searched using the capabilities built into AMPTIAC's National Materials Information System (NAMIS). This development ensures that the aerospace industry gains maximum benefit from existing technology, resulting in reduced development costs to the follow-on hypersonic vehicle programs.

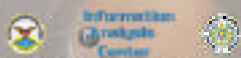
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### Training U.S. Air Force Researchers on Materials Selection for Space and Launch Applications (continued)

To provide these materials, researchers with the fundamental knowledge are needed to conduct research on materials for space and launch applications. AMPTIAC, in partnership with the Air Force Institute of Technology and AFRL/ML developed and conducted a training course that was attended by 60 people. This course focused on many important issues relevant to both structural and electro-optical materials. Experts were assembled from both government and civilian organizations to provide the required focus and in-depth information ensuring that AFRL can quickly meet the needs imposed by the Air Force's evolving mission.

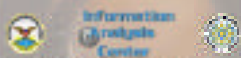
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